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RAW SEQUENCE LISTING

DATE: 06/06/2003

PATENT APPLICATION: US/09/582,711A

TIME: 14:37:07

Input Set : A:\or5037us.txt

Output Set: N:\CRF4\06062003\I582711A.raw

in

```

3 <110> APPLICANT: Serre, Guy
4      Girbal-Neuhauser, Elisabeth
5      Vincent, Christian
6      Simon, Micheal
7      Sebbag, Mireille
8      Dalbon, Pascal
9      Jolivet-Reynaud, Colette
10     Arnaud, Michael
12 <120> TITLE OF INVENTION: Peptide epitopes recognized by antifilaggrin autoantibodies
13     serum from rheumatoid arthritis patients
15 <130> FILE REFERENCE: 45636-5037-US
17 <140> CURRENT APPLICATION NUMBER: US 09/582,711A
18 <141> CURRENT FILING DATE: 2000-06-30
20 <150> PRIOR APPLICATION NUMBER: PCT/FR98/02899
21 <151> PRIOR FILING DATE: 1998-12-29
23 <160> NUMBER OF SEQ ID NOS: 9
25 <170> SOFTWARE: PatentIn version 3.2
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 24
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial
32 <220> FEATURE:
33 <223> OTHER INFORMATION: PCR primer to amplify filaggrin
35 <400> SEQUENCE: 1
36 ttccctataacc aggtgagcac tcat
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 25
41 <212> TYPE: DNA
42 <213> ORGANISM: Artificial
44 <220> FEATURE:
45 <223> OTHER INFORMATION: PCR primer to amplify filaggrin
47 <400> SEQUENCE: 2
48 agaccctgaa cgtccagacc gtccc
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 49
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 3
58 Ser Thr Gly His Ser Gly Ser Gln His Ser His Thr Thr Thr Gln Gly
59 1          5          10          15
62 Arg Ser Asp Ala Ser Arg Gly Ser Ser Gly Ser Arg Ser Thr Ser Arg
63          20          25          30
66 Glu Thr Arg Asp Gln Glu Gln Ser Gly Asp Gly Ser Arg His Ser Gly

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67          35          40          45
70 Ser
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 37
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 4
81 Ser Gln Asp Arg Asp Ser Gln Ala Gln Ser Glu Asp Ser Glu Arg Arg
82 1          5          10          15
85 Ser Ala Ser Ala Ser Arg Asn His Arg Gly Ser Ala Gln Glu Gln Ser
86          20          25          30
89 Arg Asp Gly Ser Arg
90          35
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 14
95 <212> TYPE: PRT
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 5
100 Glu Gln Ser Ala Asp Ser Ser Arg His Ser Gly Ser Gly His
101 1          5          10
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 14
106 <212> TYPE: PRT
107 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 6
111 Glu Ser Ser Arg Asp Gly Ser Arg His Pro Arg Ser His Asp
112 1          5          10
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 5
117 <212> TYPE: PRT
118 <213> ORGANISM: Artificial
120 <220> FEATURE:
121 <223> OTHER INFORMATION: epitope recognized by anti-filaggrin antibody
124 <220> FEATURE:
125 <221> NAME/KEY: MISC_FEATURE
126 <222> LOCATION: (1)..(5)
127 <223> OTHER INFORMATION: Xaa at position 1 = Ser or Gly; Xaa at position 3 =
citruiline;
128          Xaa at position 5 = Ser or Pro.
130 <400> SEQUENCE: 7
W--> 132 Xaa Ser Xaa His Xaa
133 1          5
136 <210> SEQ ID NO: 8
137 <211> LENGTH: 6
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial
141 <220> FEATURE:
142 <223> OTHER INFORMATION: epitope recognized by anti-filaggrin antibody
145 <220> FEATURE:
146 <221> NAME/KEY: MISC_FEATURE

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Input Set : A:\or5037us.txt

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147 <222> LOCATION: (1)..(6)

148 <223> OTHER INFORMATION: Xaa at position 1 = Asp; Xaa at position 2 = Ser or Gly; Xaa

at

149 position 4 = citrulline; Xaa at position 6 = Ser or Pro.

151 <400> SEQUENCE: 8

W--> 153 Xaa Xaa Ser Xaa His Xaa

154 1 5

157 <210> SEQ ID NO: 9

158 <211> LENGTH: 7

159 <212> TYPE: PRT

160 <213> ORGANISM: Artificial

162 <220> FEATURE:

163 <223> OTHER INFORMATION: epitope recognized by anti-filaggrin antibody

166 <220> FEATURE:

167 <221> NAME/KEY: MISC_FEATURE

168 <222> LOCATION: (1)..(7)

169 <223> OTHER INFORMATION: Xaa at position 1 = Asp; Xaa at position 2 = Ser or Gly; Xaa

at

170 position 4 = citrulline; Xaa at position 6 = Ser or Pro; Xaa at

171 position 7 = Gly or Arg.

173 <400> SEQUENCE: 9

W--> 175 Xaa Xaa Ser Xaa His Xaa Xaa

176 1 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/582,711A

DATE: 06/06/2003
TIME: 14:37:08

Input Set : A:\or5037us.txt
Output Set: N:\CRF4\06062003\I582711A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 1,3,5
Seq#:8; Xaa Pos. 1,2,4,6
Seq#:9; Xaa Pos. 1,2,4,6,7

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,7,8,9

VERIFICATION SUMMARY

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TIME: 14:37:08

Input Set : A:\or5037us.txt

Output Set: N:\CRF4\06062003\I582711A.raw

L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0